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NOTICE OF ALLOWANCE AND FEE(S) DUE

05514

7590

02/09/2004

FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112 EXAMINER JUBA JR, JOHN

ART UNIT

PAPER NUMBER

2872

DATE MAILED: 02/09/2004

APPLICATION	NO. FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/836.372	04/18/2001	Takashi Shirasuna	35.G2775	6886

TITLE OF INVENTION: ZOOM LENS AND OPTICAL EQUIPMENT USING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	05/10/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED</u>. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
 - □ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Alexandria, Virginia 22313-1450 or Fax (703) 746-4000 INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) 05514 7590 02/09/2004 FITZPATRICK CELLA HARPER & SCINTO Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below. 30 ROCKEFELLER PLAZA NEW YORK, NY 10112 (Depositor's name) (Signature (Date) FIRST NAMED INVENTOR APPLICATION NO. FILING DATE ATTORNEY DOCKET NO. CONFIRMATION NO. 09/836,372 04/18/2001 Takashi Shirasuna 35.G2775 6886 TITLE OF INVENTION: ZOOM LENS AND OPTICAL EQUIPMENT USING THE SAME **PUBLICATION FEE** APPLN. TYPE SMALL ENTITY ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional \$1330 \$300 \$1630 05/10/2004 **EXAMINER** ART UNIT **CLASS-SUBCLASS** JUBA JR, JOHN 2872 359-566000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer attorneys or agents. If no name is listed, no name will be printed. Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) Please check the appropriate assignee category or categories (will not be printed on the patent); ☐ individual ☐ corporation or other private group entity 4a. The following fee(s) are enclosed: 4b. Payment of Fee(s): ☐ Issue Fee ☐ A check in the amount of the fee(s) is enclosed. Publication Fee ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form). ☐ Advance Order - # of Copies (enclose an extra copy of this form). Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. (Authorized Signature) (Date) NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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30 ROCKEFELLER PLAZA NEW YORK, NY 10112			ART UNIT	PAPER NUMBER	
				2872	
			DATE MAILED: 02/09/2004		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

		MU		
•	Application No.	Applicant(s)		
	09/836,372	SHIRASUNA, TAKASHI		
. Notice of Allowability	Examin r	Art Unit		
•	John Juba	2872		
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in the commod of the c	n this application. If not included unication will be mailed in due course. THIS		
 This communication is responsive to <u>§1.116 amendment</u> The allowed claim(s) is/are <u>1-12 and 35-53</u>. 	<u>11100 01703/2004</u> .			
3. \boxtimes The drawings filed on 18 April 2001 are accepted by the E	Examiner.			
4. ⊠ Acknowledgment is made of a claim for foreign priority u		or (f).		
a) ⊠ All b) ☐ Some* c) ☐ None of the:				
 Image: A comparison of the priority documents have a compared to the priority documents. 	e been received.			
2. Certified copies of the priority documents have	e been received in Applicati	on No		
3. Copies of the certified copies of the priority d	ocuments have been receive	d in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:		h		
5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.				
(a) The translation of the foreign language provisional				
 Acknowledgment is made of a claim for domestic priority in the first sentence of the specification or in an Application 	on Data Sheet. 37 CFR 1.78.			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	of this communication to file of this application. THIS THE	a reply complying with the requirements noted REE-MONTH PERIOD IS NOT EXTENDABLE.		
7. A SUBSTITUTE OATH OR DECLARATION must be subs INFORMAL PATENT APPLICATION (PTO-152) which gives	mitted. Note the attached EX ves reason(s) why the oath o	AMINER'S AMENDMENT or NOTICE OF r declaration is deficient.		
 8. CORRECTED DRAWINGS (as "replacement sheets") mutering (a) including changes required by the Notice of Draftspe 1) hereto or 2) to Paper No. (b) including changes required by the proposed drawing (c) including changes required by the attached Examine 	rson's Patent Drawing Revie	ch has been approved by the Examiner.		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the margin according to 37 CFR 1.121(d).				
9. DEPOSIT OF and/or INFORMATION about the depattached Examiner's comment regarding REQUIREMENT FOR	osit of BIOLOGICAL MAT THE DEPOSIT OF BIOLOG	ERIAL must be submitted. Note the ICAL MATERIAL.		
Attachm nt(s)		•		
1⊠ Notice of References Cited (PTO-892)	5☐ Notice of Inf	ormal Patent Application (PTO-152)		
2☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6☐ Interview Summary (PTO-413), Paper No			
3 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No	⁰⁸), 7□ Examiner's	Amendment/Comment		
4 Examiner's Comment Regarding Requirement for Deposit	8☐ Examiner's	Statement of Reasons for Allowance		
of Biological Material	9∏ Other			

Application/Control Number: 09/836,372

Art Unit: 2872

Reasons for Allowance

The following is an examiner's statement of reasons for allowance: Claims 1 - 12, 35 - 38, and 40 - 47 are allowable over the prior art for the reasons set forth in the last Office action (October 28, 2003). New claims 48 - 51 and 53 are allowable over the prior art at least for the reasons previously set forth with respect to their respective base claims. Claims 39 and 52 are allowable over the prior art since:

The prior art, taken alone or in combination, fails to teach or to fairly suggest, in the zoom lens system having a diffractive optical surface located on an object side surface of an optical element of the *fourth unit*, the fourth lens unit comprising three lenses, as now recited in claim 39.

Hayashi, et al (U.S. Patent number 6,002,519) discloses a zoom lens system comprising three lenses in the fourth lens unit, but the second unit comprises a decentered lens. Hayashi, et al expressly teach that the second lens unit *does not move* upon zooming from the wide to telephoto end.

Although Hoshi, et al (U.S. Patent number 5,815,320) disclose a zoom lens system with three lenses in the fourth unit, the surfaces having the lowest curvature (in examples 5 – 7) are image side surfaces. Thus, since it is known to select a relatively low curvature surface for placement of a diffractive surface, one would *not* have been motivated by manufacturing ease to select a surface an object side surface in the system of Hoshi, et al.

Art Unit: 2872

Applicant requested that the examiner provide a reference in support of the taking of Office Notice related to surface selection. Applicant's attention is directed to the "Response to Amendment" section in the final rejection of October 28, 2003.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

OLYMPUS OPTICAL (JP 06-324262 A) disclose a lens system with a diffractive surface. An abstract of this reference was enclosed with Applicant's I.D.S. of April 18, 2001. However, the citation on form PTO-1449 was to JP 6-234262, and the publication pages included were not directed to a lens system. The citation on examiner's form PTO-892 is intended to clarify the record that JP 06-324262 A has been considered in its entirety.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Post-allowance papers should be mailed to **Box Issue Fee**. Post-allowance papers may also be faxed to correspondence branch in PUBs. The fax number is (703) 308-5083. The **PUBs customer service** number is (703) 305-8497.

Application/Control Number: 09/836,372

Art Unit: 2872

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Juba whose telephone number is (571) 272-2314. The examiner can normally be reached on Mon.-Fri. 9 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Drew Dunn can be reached on Mon.- Thu., 9 - 5.

The centralized fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306 for all communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

PRIMARY EXAMINER

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Art Unit 2872